

The Listing of the Claims

1. (Original) A shielded jack assembly, comprising:

an elongate insulator member having a central elongate pin receiving passageway, and a rear slot intersecting said passageway at least to an outer surface of said insulator member, and a recess portion adjacent a front end of said insulator;

an electrical pin, having an elongate portion positioned insulatively in said passageway, and having an orthogonally arranged printed circuit board time, which extends in said rear slot portion and extends downwardly beyond said outer surface of said insulator, and said pin having a mating portion extending into said recess portion, where said pin is exposed;

an elongate seamless shielded tube extending from a position adjacent said front end of said insulator, and rearwardly, at least partially along the length of said insulator member, and

a stamped and formed metallic ground shell, having an outer body portion conforming to an exterior contour of said shielded tube, sidewall portions extending downwardly therefrom with integrally formed printed circuit board portions, and a rear plate portion hingedly connected to said outer body portion, and folded downwardly to enclose an end opening.

2. (Original) The shielded jack assembly of claim 1, wherein said insulator member, shielded tube, and said outer body portion of said ground shell are cylindrical in cross section.

3. (Original) The shielded jack assembly of claim 1, wherein said shielded tube and said ground shell are fixed together along their length.

4. (Original) The shielded jack assembly of claim 3, wherein said tube includes a peripheral undercut and said ground shell is crimped around said tube with a section of said outer body portion extending into said undercut.

5. (Original) The shielded jack assembly of claim 1, further comprising an outer shroud portion surrounding said shielded tube, forming an outer shielding.

6. (Original) The shielded jack assembly of claim 5, wherein said outer shroud portion is stamped and formed to define a longitudinal overlapping seam.

7. (Original) The shielded jack assembly of claim 6, comprising a plurality of assembled insulator members, pins, shielded tubes, and ground shells, said shroud including a rear wall having a like plurality of openings therethrough for receiving said plurality of assembled insulator members, pins, shielded tubes, and ground shells.

8. (Original) The shielded jack assembly of claim 7, wherein said overlapping seam extends downwardly and inwardly, and intermediate said plurality of assembled insulator members, pins, shielded tubes, and ground shells, and defines an alignment rib for a mating connector.

9. (Original) The shielded jack assembly of claim 8, wherein said rear plate of said ground shell and said outer shroud member have a tab extending downwardly therefrom profiled for soldering to a printed circuit board.

10. (Original) A shielded jack assembly, comprising:

an elongate cylindrical insulator member having a central elongate pin receiving passageway, and a rear slot intersecting said passageway at least to an outer surface of said insulator member, and a recess portion adjacent a front end of said insulator;

an electrical pin, having an elongate portion positioned insulatively in said passageway, and having an orthogonally arranged printed circuit board trace, which extends in said rear slot portion and extends downwardly beyond said outer surface of said insulator, and said pin having a mating portion extending into said recess portion, where said pin is exposed;

an elongate cylindrical seamless shielded tube extending from a position adjacent said front end of said insulator, and rearwardly, at least partially along the length of said insulator member;

a stamped and formed metallic ground shell, having an outer body portion conforming to, and crimped to, an exterior contour of said shielded tube, sidewall portions extending downwardly therefrom with integrally formed printed circuit board portions; and

an outer shroud portion surrounding said shielded tube, forming an outer shielding.

11. (Original) The shielded jack assembly of claim 10, further comprising a rear plate portion hingedly connected to said outer body portion, and folded downwardly to enclose an end opening.

12. (Original) The shielded jack assembly of claim 11, wherein said tube includes a peripheral undercut and said ground shell is crimped around said tube with a section of said outer body portion extending into said undercut.

13. (Original) The shielded jack assembly of claim 12, wherein said outer shroud portion is stamped and formed to define a longitudinal overlapping seam.

14. (Original) The shielded jack assembly of claim 13, comprising a plurality of assembled insulator members, pins, shielded tubes, and ground shells, said shroud including a rear wall having a like plurality of openings therethrough for receiving said plurality of assembled insulator members, pins, shielded tubes, and ground shells.

15. (Original) The shielded jack assembly of claim 14, wherein said overlapping seam extends downwardly and inwardly, and intermediate said plurality of assembled insulator members, pins, shielded tubes, and ground shells, and defines an alignment rib for a mating connector.

16. (Original) The shielded jack assembly of claim 15, wherein said rear plate of said ground shell and said outer shroud member have a tab extending downwardly therefrom profiled for soldering to a printed circuit board.

17. (Original) A method of forming a shielded jack assembly, comprising the steps of:

providing an elongate insulator member having a central elongate pin receiving passageway, and a rear slot intersecting said passageway at least to an outer surface of said insulator member, and a recess portion adjacent a front end of said insulator;

providing an electrical pin, with an elongate portion, and forming an orthogonally arranged printed circuit board line;

inserting said pin into said insulator member such that said elongate portion is positioned insulatively in said passageway, and such that said printed circuit board line extends in said rear slot portion and extends downwardly beyond said outer surface of said insulator, and said pin having a mating portion extending into said recess portion, where said pin is exposed;

providing an elongate seamless shielded tube extending from a position adjacent said front end of said insulator, and rearwardly, at least partially along the length of said insulator member, and

stamping and forming a metallic ground shell to comprise an outer body portion conforming to an exterior contour of said shielded tube, sidewall portions extending downwardly therefrom with integrally formed printed circuit board portions, and a rear plate portion hingedly connected to said outer body portion, and folding said rear plate portion downwardly to enclose an end opening.

18. (Original) The method of claim 17, further comprising the step of stamping and forming an outer shroud portion, placing said outer shroud portion in a surrounding relation with said shielded tube, and fixing said outer shroud portion and shielded tube together.

19. (Original) The method of claim 18, wherein said shielded tube is provided with a peripheral undercut and said ground shell is crimped around said tube with a section of said outer body portion extending into said undercut.

20. (Original) The shielded jack assembly of claim 18, further comprising the step of providing a plurality of assembled insulator members, pins, shielded tubes, and ground shells, with said shroud including a rear wall having a like plurality of openings therethrough for receiving said plurality of assembled insulator members, pins, shielded tubes, and ground shells.